

CLAIMS

1. A battery comprising a battery body including:
a positive and a negative electrode containing an active
material,

an electrolytic solution containing an electrolyte, and
an adhesive resin layer which is interposed in between the
positive electrode and the negative electrode and is joined to at
least one of the positive and the negative electrodes,

wherein the adhesive resin layer comprises at least one
layer and contains fillers.

2. A battery according to claim 1, wherein said
electrolyte is an organic electrolyte containing lithium ions.

3. A battery according to claim 1, wherein the
average particle size of said filler is equal to or smaller than
the particle size of the active material constituting each
electrode.

4. A battery according to claim 1, wherein said
average particle size of said filler is 1 μm or smaller.

5. A battery according to claim 1, wherein the sum
of a volume ratio of the adhesive resin and that of the filler per
unit volume of said adhesive resin layer is less than 1.

6. A battery according to claim 1, wherein the sum of a volume ratio of the adhesive resin and that of the filler per unit volume of said adhesive resin layer is 0.2 to 0.8.

7. A battery according to claim 1, wherein said filler comprises at least one of non-conductive materials and semiconductors.

8. A battery according to claim 1, wherein said adhesive resin layer comprises a layer containing an electrically conductive filler and a layer containing at least one of non-conductive fillers and semiconductive fillers.

9. A battery according to claim 1, wherein said adhesive resin layer is constituted so as to fill the unevenness of the positive electrode and the negative electrode.

10. A battery according to claim 1, wherein said battery body is a laminate of a plurality of electrode bodies each composed of a single layer of the positive electrode, a single layer of the adhesive resin layer, and a single layer of the negative electrode.

11. A battery according to claim 10, wherein said laminate is composed of the positive electrodes and the negative

electrodes interposed alternately among a plurality of the adhesive resin layers.

12. A battery according to claim 10, wherein said laminate is composed of the positive electrode and the negative electrode which are alternately interposed between adhesive resin layers and rolled up.

13. A battery according to claim 10, wherein said laminate is composed of the positive electrode and the negative electrode which are alternately interposed between adhesive resin layers and folded.

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